



CALIFORNIA DEPARTMENT OF CONSERVATION  
CALIFORNIA GEOLOGICAL SURVEY  
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## Map Release

April 8, 2005

## RGM NO. 4

# GEOLOGIC MAP OF THE LAKE TAHOE BASIN, CALIFORNIA AND NEVADA, 1:100,000 SCALE

Compiled by  
George J. Saucedo

Digitized by  
Jason D. Little, Sarah E. Watkins, Jennifer R. Davis,  
Marina T. Mascorro, Victoria D. Walker, and Eric W. Ford

The Geologic Map of the Lake Tahoe Basin, California and Nevada is the fourth map completed as part of the California Geological Survey's 1:100,000 scale Regional Geologic Map Series. The map was compiled and digitized from existing published and unpublished geologic maps covering the area between latitudes 38° 37' 30" and 39° 22' 30" north and 119° 52' 30" and 120° 15' 00" west longitude. The geologic map is superimposed on a shaded-relief image, which depicts the bathymetry of the lake bottom as well as the topography of the basin uplands. A pamphlet containing a geologic summary, description and correlation of map units, sources of mapping, and references is also included.

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119° 52' 30"  
 39° 22' 30"

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## DESCRIPTION OF MAP UNITS (See pamphlet for more detailed unit descriptions)

<b>Artificial fill (late Holocene)</b>	<b>Granitic rocks</b>
<b>Qb</b> Beach deposits (Holocene)	<b>ap</b> Aplite and pegmatite dikes (Cretaceous)
<b>Qfp</b> Flood-plain deposits (Holocene)	<b>Kelg</b> Echo Lake granodiorite (Cretaceous)
<b>Qf</b> Talus deposits (Holocene)	<b>Kpyp</b> Phipps Pass granodiorite (Cretaceous)
<b>Ql</b> Lake deposits (Holocene)	<b>Klmg</b> Bryan Meadow granodiorite (Cretaceous)
<b>Qyg</b> Younger glacial deposits (Holocene)	<b>Klkg</b> Lovers Leap granodiorite (Cretaceous)
<b>Qc</b> Colluvium (Holocene)	<b>Kpgg</b> Glen Alpine granodiorite (Cretaceous)
<b>Qls</b> Landslide deposits (Holocene and Pleistocene)	<b>Klkg</b> Tyler Lake granodiorite (Cretaceous)
<b>Q</b> Alluvium (Holocene and Pleistocene)	<b>Kwls</b> Wrights Lake granodiorite (Cretaceous)
<b>Qf</b> Alluvial fan deposits (Holocene and Pleistocene)	<b>Kdkg</b> Dicks Lake granodiorite (Cretaceous)
<b>Qm</b> Mudflow deposits (Holocene and (or) Pleistocene)	<b>Krpo</b> Alaskite at Rubicon Point (Cretaceous)
<b>Qob</b> Older beach deposits (Pleistocene)	<b>Krps</b> Jackson Valley granodiorite (Cretaceous)
<b>Qol</b> Older lake deposits (Pleistocene)	<b>Kwls</b> Granodiorite of Waterhouse Peak (Cretaceous)
<b>Qh</b> Lacustrine terrace deposits (Pleistocene)	<b>Kqg</b> Quartz diorite of Grass Lake (Cretaceous)
<b>Tioga glacial deposits (Pleistocene)</b>	<b>Kkls</b> Granodiorite of Kingsbury Grade (Cretaceous)
<b>Qt</b> Till	<b>Kwls</b> Tonalite West of Waterhouse Peak (Cretaceous)
<b>Qto</b> Outwash deposits	<b>Keg</b> Granodiorite of East Peak (Cretaceous)
<b>Tahoe glacial deposits (Pleistocene)</b>	<b>Ksgr</b> Monzogranite of Spooner Summit of Grose (1985) (Cretaceous)
<b>Qsa</b> Till	<b>Klkg</b> Granodiorite of Thornburg Canyon (Cretaceous)
<b>Qto</b> Outwash deposits	<b>Kevy</b> Granodiorite of Charity Valley (Cretaceous)
<b>Tahoe and Tioga glacial deposits undivided (Pleistocene)</b>	<b>Kld</b> Diorite of Caples Lake (Cretaceous)
<b>Qpt</b>	<b>Kelg</b> Granodiorite of Caples Lake (Cretaceous)
<b>Older glacial deposits - pre-Tahoe deposits (Pleistocene)</b>	<b>Klkg</b> Freel Peak granodiorite (Cretaceous)
<b>Qsa</b> Till	<b>Kbld</b> Burnside Lake adamellite of Parker (1961) (Cretaceous)
<b>Qto</b> Outwash deposits	<b>Kdps</b> Granodiorite of Daggett Pass (Cretaceous)
<b>Glacial deposits undivided (Pleistocene and Holocene?)</b>	<b>Ksgr</b> Carson Pass tonalite of Parker (1961) (Cretaceous)
<b>Qt</b> Till	<b>Klkg</b> Granodiorite of Faith Valley (Cretaceous)
<b>Qto</b> Outwash deposits	<b>Krps</b> Ebbetts Pass granodiorite of Wilshire (1957) (Cretaceous)
<b>Qbm</b> Bald Mountain olivine latite of Birkeland (1961) (Pleistocene)	<b>Klkg</b> Granodiorite of Kinney Lakes (Cretaceous)
<b>Qvnc</b> Cinder cone deposits	<b>sd</b> Basalt dikes (Cretaceous)
<b>Qj</b> Juniper Flat alluvium of Birkeland (1961) (Pleistocene)	<b>Kdps</b> Quartz monzodiorite north of Daggett Pass (Cretaceous?)
<b>Qps</b> Prosser Creek alluvium of Birkeland (1961) (Pleistocene)	<b>Kbs</b> Breccia pipe (Cretaceous?)
<b>Qhb</b> Hirschdale olivine latite of Birkeland (1961) (Pleistocene)	<b>Kclg</b> Camper Flat granodiorite (Cretaceous or Jurassic?)
<b>Qvnc</b> Cinder cone deposits; Qvht - basaltic tuff	<b>Kdys</b> Desolation Valley granodiorite (Cretaceous or Jurassic?)
<b>Qpat</b> Older talus deposits (Pliocene and (or) Pleistocene)	<b>Kkm</b> Keiths Dome quartz monzonite (Cretaceous or Jurassic?)
<b>Qpvl</b> Dry Lake volcanic flows of Birkeland (1961); Wise and Sylvester (2004) (Pliocene and (or) Pleistocene)	<b>Unamed granitic rocks of the Sierra Nevada batholith</b>
<b>Qpvl</b> Big Chief basalt of Birkeland (1961) (Pliocene and (or) Pleistocene)	<b>Granite and granodiorite, undivided (Cretaceous)</b>
<b>Qpys</b> Page Meadow basalt of Wise and Sylvester (2004) (Pliocene and (or) Pleistocene)	
<b>Qpu</b> Unnamed gravels, sand and alluvium (Pliocene and (or) Pleistocene)	
<b>Qpvl</b> Burton Creek basalt of Wise and Sylvester (2004) (Pliocene and (or) Pleistocene)	
<b>Qpvl</b> Lake Forest basalt of Wise and Sylvester (2004) (Pliocene and (or) Pleistocene)	
<b>Unamed volcanic and intrusive rocks (Pliocene and (or) Pleistocene)</b>	

